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illuminating a sample using an optical assembly comprising a movable mirror to focus electromagnetic radiation on sequential regions of said sample; wherein said optical assembly comprises a sheath for transmitting said electromagnetic radiation to said sample;

collecting with said optical assembly, electromagnetic radiation emanating from said sequential regions, thereby to associate said sequential regions with collected electromagnetic radiation emanating therefrom; and

analyzing said collected electromagnetic radiation in order to determine characteristics of said sequential region based upon features of said collected electromagnetic radiation.

- 106. (New) The method of claim 105, wherein said mirror is a beam splitter.
- 107. (New) The method of claim 105, wherein said collecting step comprises focusing said emanating radiation on a detector using a second movable mirror.
- 108. (New) The method of claim 105, wherein said analyzing step comprises detecting said emanating radiation and comparing emanating radiation obtained from a region of said sample to a standard.
- 109. (New) The method of claim 105, wherein said sample is biological tissue.
- 110. (New) The method of claim 109, wherein said biological tissue is cervical tissue.
- 111. (New) The method of claim 105 further comprising the step of diagnosing a disease state based upon a comparison of said emanated electromagnetic radiation to one or more standards indicative of various states of health.
- 112. (New) The method of claim 105, wherein said emanating electromagnetic radiation is substantially confocal with electromagnetic radiation provided in said illuminating step.
- 113. (New) The method of claim 105, wherein predetermined wavelengths of said emanating electromagnetic radiation are selected for analysis in said analyzing step.

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- 114. (New) The method of claim 105, wherein said illuminating step comprises illuminating substantially all of said sample.
- 115. (New) The method of claim 105, wherein said sheath is a single-use disposable sheath.
- 116. (New) The method of claim 108, wherein said detecting step comprises an array of detectors.
- 117. (New) The method of claim 116, wherein said array of detectors comprises optical elements and processors.
- 118. (New) The method of claim 107, wherein said second movable mirror comprises beam splitter to split said emanating radiation into a plurality of individual wavelengths.
- 119. (New) The method of claim 118, wherein said beam splitter is a spectrometer.
- 120. (New) The method of claim 105, further comprising the step of controlling a field stop in order to probe a volume element of said sample.
- 121. (New) The method of claim 120, wherein said field stop has a dimension that is large compared to a quotient formed by division of a wavelength of said emanating electromagnetic radiation by a numerical aperture of said optical assembly.
- 122. (New) The method of claim 120, wherein said controlling step comprises controlling an array of field stops in order to probe a volume element of said sample.
- 123. (New) The method of claim 120, wherein said field stop is controlled by said mirror.
- 124. (New) The method of claim 105, wherein said sample is illuminated using a plurality of said movable mirrors.

## REMARKS

Claims 1 - 104 were presented in the parent application, United States Serial No. 09/256,156, filed February 2, 1999. Claims 1 - 104 have been canceled without prejudice. New

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